



सत्यमेव जयते

State Level Environment Impact Assessment Authority-Karnataka

(Constituted by MoEF, Government of India, under section 3(3) of E(P) Act, 1986)

No. SEIAA 32 IND 2009

Date : 20-11-2014

To,

The Commissioner
Bengaluru Development Authority
T Chowdaiah Road, Kumarapark West
Bengaluru - 560 020
Ph. No.: 080 2334 5799
E-mail: bda@vsnl.com

Sir,

Sub: Development of Eight Lane Peripheral Ring Road -
Phase - I, connecting Tumkur Road to Hosur Road
(crossing Bellary Road & Old Madras Road) of total
65 Kms by the Bengaluru Development Authority,
Bengaluru - Issue of Environmental Clearance - Reg.

This has reference to your application No.BDA/EM/TA3/PRR/EIA/T333/09-10 dated 10th September, 2009 addressed to the SEIAA seeking prior Environmental Clearance for the above project under the EIA Notification, 2006. The proposal has been appraised as per prescribed procedure in the light of the provisions under the EIA Notification, 2006 on the basis of the mandatory documents enclosed with the application viz., the Form 1, EMP and the additional clarifications furnished in response to the observations of the SEAC, Karnataka, in its meetings held on 21st November, 2009; 5th April, 2013; 9th June, 2014; 12th August, 2014 & 14th November, 2014. SEAC has recommended for issue of Environmental Clearance.

2. The proposal is for development of Eight Lane Peripheral Ring Road: Phase - I, connecting Tumkur Road to Hosur Road (crossing Bellary Road & Old Madras Road) of total 65 Kms.

3. The proposed project will have the provision for 69 box culverts and 4 Nos. of minor bridges for crossing of rajakaluve, nalas etc. The project authority have proposed 36 structures for major crossing of NH/SH/MDR/VR etc.

4. The project proposal has been considered by SEAC and ToRs were issued on 18th December, 2009 for conducting Environment Impact Assessment Study with Public Hearing. The EIA has been conducted by EIA Consultant namely M/s. Ramky Enviro Engineers Limited (Consultancy

State Level Environment Impact Assessment Authority-Karnataka

(Constituted by MoEF, Government of India under section 3(3) of E(P) Act, 1986)

SEIAA 32 IND 2009

Development of 'Peripheral Ring Road' project by
The Bengaluru Development Authority

Division), Rajbhavan Road, Somajiguda, Hyderabad, Andhra Pradesh - 500 082 and Public Hearing has been conducted by the Karnataka State Pollution Control Board, Bengaluru at Bilishivale Village, Bidarahalli Hobli, Bengaluru East Taluk, Bengaluru Urban District on 6th February, 2014.

5. The project proposal has been considered by SEIAA in its meeting held on 18th November, 2014 and the Environmental Clearance is hereby accorded to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions:-

(A) Specific Conditions:

1. The Project Authorities shall construct 3 lane Service Road for the proposed Peripheral Ring Road on either side of the road which would be helpful to all the inhabitants of 65 villages and the access shall be toll free.
2. Adequate drainage facility should be provided to ensure that road is not flooded during any part of the year. The number of cross drainage works may be increased for free flow of water during floods as the alignment passes through micro drainage areas and flood passage areas.
3. Protecting walls should be constructed along the slopes to prevent the land slides.
4. Noise barriers shall be provided at appropriate locations particularly in the areas where the alignment passes through inhabited areas schools/hospitals, so as to ensure that the noise levels do not exceed the prescribed standards.
5. R&R shall be as per the norms laid down by the concerned agencies.
6. Large quantity of fill materials and blue metal are required for the construction of the road. The location and details of the quarries and borrow pits should be provided to the SEIAA, Karnataka within six months from the date of issue of this letter.
7. The Project Authorities should undertake social improvement measures by training some of the local communities for monitoring/implementing the environmental conditions along the road. The Bengaluru Development Authority, Bengaluru should take up construction of dispensaries and schools at required locations.
8. Footpath should be provided on both sides of the road shoulders for local communities.
9. Accident severity index to be taken into account and accordingly safety measures as per IRC to be included.
10. The Project Authority should undertake plantation along the road to be as per the guidelines laid down by IRC in lieu of the trees cut.
11. The Project Authority should set up facilities for harvesting rainwater. The details of the rainwater harvest system may be provided to this Authority within 3 months from the date of receipt of this letter.
12. Solid waste shall be used for filling the burrow areas and construction of the road.

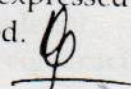
State Level Environment Impact Assessment Authority-Karnataka

(Constituted by MoEF, Government of India under section 3(3) of E(P) Act, 1986)

SEIAA 32 IND 2009

Development of 'Peripheral Ring Road' project by
The Bengaluru Development Authority

13. To prevent damage to the agricultural land, the drainage flow should be diverted to the natural course avoiding the agricultural land.
14. The road profile should be raised on the low lying structures to prevent flooding of road.
15. Green belt development may be undertaken as per the Environmental Management Plan.
16. The Project Authority should obtain necessary permission from the competent authorities before drawing water for the purpose of the proposed construction activity. No groundwater should be drawn for the project, if this is essential, permission from the concerned Authority should be taken in this regard.
17. The Project Authorities shall use the tertiary treated water for development of road to the maximum extent possible as per G.O. No. FEE 188 ENV 2003 dated 14th August, 2003.
18. The embankments/slopes and the slopes left after cutting will be provided with vegetative turfing to avoid soil erosion.
19. Detailed plan for use of fly ash in the project may be made and submitted to the Authority. In any case, fly ash utilisation as per provisions under Notification S.O. 763 (E) dated 14.9.1999 as amended vide S.O. 797 (E) dated 27.8.2003 must be adhered to.
20. Longitudinal drains should be provided all along the project road to ensure proper drainage of the area. In addition, adequate number of under passes and culverts to act as cross drainage structures should also be provided.
21. The hot mix plant should be located at least 500 mts away from habitation and on the barren land to avoid its adverse impact on the human population.
22. Necessary permission for tree felling from the concerned department should be obtained before commencement of the project work and copies of the same should be submitted to this Authority and the compensatory avenue plantation shall be undertaken at the rate of 200 trees per km length of road.
23. Recommendation of international conference for the restriction on the use of carcinogens in the process of road making, such as the Benzenes which are likely to cause Leukemia should be strictly complied with and the prescribed safety equipment should be provided to the labourers. Blood examination of labourers should be taken up in the beginning & repeated every 6 months.
24. Walk way should be provided for over bridges.
25. Awareness campaigns on road safety should be got done.
26. In critical areas, especially villages, under pass should be provided.
27. The Project Authorities shall use the forest land if any only after obtaining due clearance for diversion of forest land for non forest purposes from the competent authority following due procedure of law.
28. The Project Authorities shall address all the concerns expressed during the public hearing as committed and report be submitted.



(B) General Conditions:

1. Adequate provision for infrastructure facilities including water supply fuel and sanitation shall be ensured for construction workers during the construction phase of the project in order to avoid any damage to the environment.
2. Appropriate measures shall be taken while undertaking digging activities to avoid any likely degradation of water quality.
3. Borrow sites for earth, quarry sites for road construction material and dump sites shall be identified keeping in view the following:
 - (a) No excavation or dumping on private property shall be carried out without written consent of the owner.
 - (b) No excavation or dumping shall be allowed on wetlands, forest areas or other ecologically valuable or sensitive locations.
 - (c) Excavation work shall be done in consultation with the Soil Conservation and Watershed Development Agencies working in the area; and
 - (d) Construction spoils including bituminous material and other hazardous materials shall not be allowed to contaminate water courses and the dump sites for such materials must be secured so that they shall not leach into the ground water.
4. The construction material shall be obtained only from approved quarries. In case new quarries are to be opened, specific approvals from the competent authority shall be obtained in this regard.
5. Adequate precautions shall be taken during transportation of the construction material so that it does not affect the environment adversely.
6. Borrow pits and other scars created during the road construction shall be properly levelled and treated.
7. The project-affected people, if any, shall be adequately rehabilitated and the details in this regard shall be furnished to the Authority, there is resettlement involved.
8. Adequate financial provision must be made in the project to implement the aforesaid safeguards.
9. The Project Authority will set up separate environmental management cell for effective implementation of the stipulated environmental safeguards under the supervision of a Senior Executive.
10. Full support shall be extended to the officers of SEIAA, Karnataka, the APCCF, Regional Office of MoEF at Bengaluru/KSPCB/CPCB/ Department of Ecology and Environment, Government of Karnataka, M.S. Building, Bangaloor - 560 001 by the project proponents during their inspection of the project for monitoring purposes by furnishing full details and action plan including action taken reports in respect of mitigative measures and other environmental protection activities.
11. Half yearly monitoring report shall be submitted to the SEIAA and the APCCF, Regional Office, MoEF, Bengaluru regarding the implementation of the stipulated conditions.

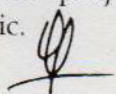
State Level Environment Impact Assessment Authority-Karnataka

(Constituted by MoEF, Government of India under section 3(3) of E(P) Act, 1986)

SEIAA 32 IND 2009

Development of 'Peripheral Ring Road' project by
The Bengaluru Development Authority

12. The Authority may stipulate any other conditions or environmental safeguards, subsequently, if deemed necessary, which shall be complied with.
13. The Authority reserves the right to revoke this clearance if any of the conditions stipulated are not complied with to the satisfaction of the Authority.
14. In the event of a change in project profile or change in the implementation agency, a fresh reference shall be made to the Authority.
15. The Project Authorities shall inform the SEIAA - Karnataka, the APCCF, Regional Office of MoEF at Bengaluru /KSPCB/CPCB/Department of Ecology and Environment, Government of Karnataka, M.S. Building, Bangaloor-560 001/ the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.
16. A copy of the clearance letter shall be marked to concerned Panchayat/local NGO, if any, from whom any suggestion/representation has been received while processing the proposal.
17. Safety provision such as bus bays, service roads intersection improvement etc., will be carried out by the project proponent. The project proponent shall provide adequate facilities as per IRC norms/guidelines.
18. Karnataka State Pollution Control Board shall display a copy of the clearance letter at the Regional Office, District Industries Centre and Deputy Commissioners Office/Tehsildar's officer for 30 days.
19. The Project Authority shall inform the public that the project has been accorded Environmental Clearance by the SEIAA and copies of the clearance letter are available with the KSPCB and may also be seen at Website of the State Environment and Ecology department at <http://seiaa.kar.nic.in>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the APCCF, Regional Office of MoEF at Bengaluru/KSPCB/CPCB/Department of Ecology and Environment, Government of Karnataka, M.S. Building, Bangaloor - 560 001.
20. Any appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
21. These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification 1994 including the amendments and rules made thereafter.
22. The Project Authorities shall display the conditions prominently at appropriate places of the project site on a suitable size board for the information of the public.



State Level Environment Impact Assessment Authority-Karnataka

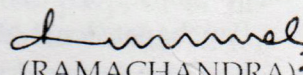
(Constituted by MoEF, Government of India under section 3(3) of E(P) Act, 1986)

SEIAA 32 IND 2009

Development of 'Peripheral Ring Road' project by
The Bengaluru Development Authority

23. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environmental (Protection) Act, 1986.

Yours faithfully,


(RAMACHANDRA) 20/11/14
Member Secretary,
SEIAA, Karnataka.

Copy to:

1. The Secretary, Ministry of Environment, Forests and Climate Change, Indira Paryavaran Bhavan, Jor Bagh Road, Aliganj, New Delhi - 110 003.
2. The Secretary, Department of Environment and Ecology, Government of Karnataka, Bengaluru.
3. The Member Secretary, Karnataka State Pollution Control Board, Bengaluru.
4. The APCCF, Regional Office, Ministry of Environment & Forests (SZ), Kendriya Sadan, IVth Floor, E & F wings, 17th Main Road, Koramangala II Block, Bengaluru-560 034.
5. Guard File.